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| **Before: Minds on (10 mins)** | **Activity:**   * Introduce idea of plant reproduction Ask students to discuss how they have seen plants reproduce with elbow partner i.e. other methods of propagation. * Discuss as a class the different methods of reproduction | **Rationale for choice of T/L Strategy:**   * Gauge students prior knowledge * Allows student to make connections with prior knowledge |
| **During: In Action (35 mins)** | * Divide class into 4 groups: angiosperms, gymnosperms, leaf cutting/ stem cutting/ root cutting, and grafting. * Give out resources to each group: textbook, easy read book, video clip, website, gardening magazine. * Ask each group to do their research and explain to each other their particular method. * Each group is given a chart of key questions they must answer for their method. * Each group writes out their process in simple steps on a *white board*. | * Different resources cater to students with different learning styles * Each group is assigned the same topic so that each student can bring in a different perspective and perhaps fill in holes in other students understanding * While explaining to each other they themselves will get a better understanding * White boards will give the class a visual representation of reproductive process * Students having to present will learn their own topic very well |
| After: Consolidation (25 mins) | * Each group explains their part to the class showing their white board. * At the end ask questions to assess over all understanding. * Give out completed chart handouts to each student | * Questions will assess over all understanding * Connect each of the 4 methods of reproduction * Give big picture to students * Completed chart gives each student concrete material to read/refer to if they didn’t properly understand |
| Next steps (2 mins) |  |  |

Consolidation questions:

How does a plant get genetic variation?

What are the benefits of sexual reproduction?

What are the benefits of asexual reproduction?

Does genetic variation increase biodiversity? If so, how?

What is the key difference between angiosperms and gymnosperms?

Why are certain methods used for commercial food production but not others?